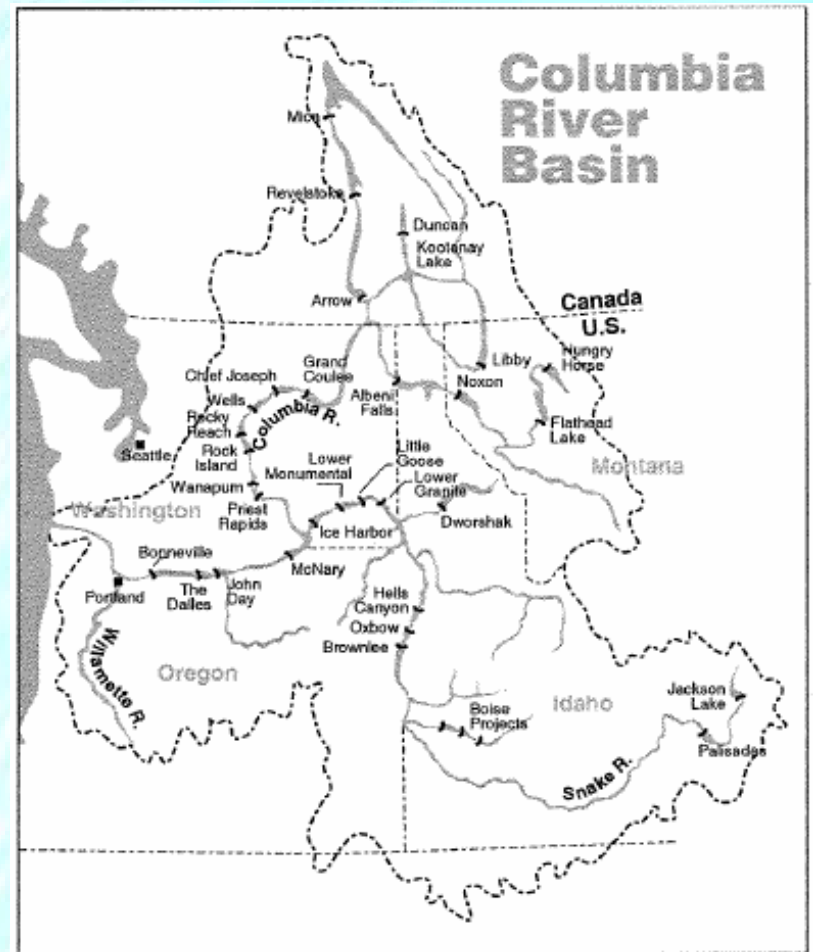
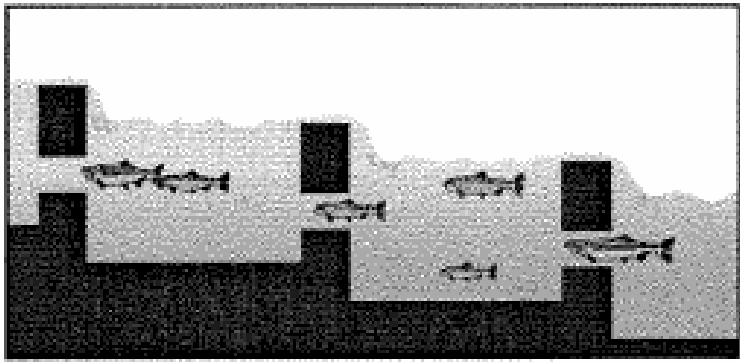


# ***Application of Criterium Decision Plus and Other Related Experiences***

***Bill Swanson and Christie Dowling  
MWH***

***May 24, 2004***

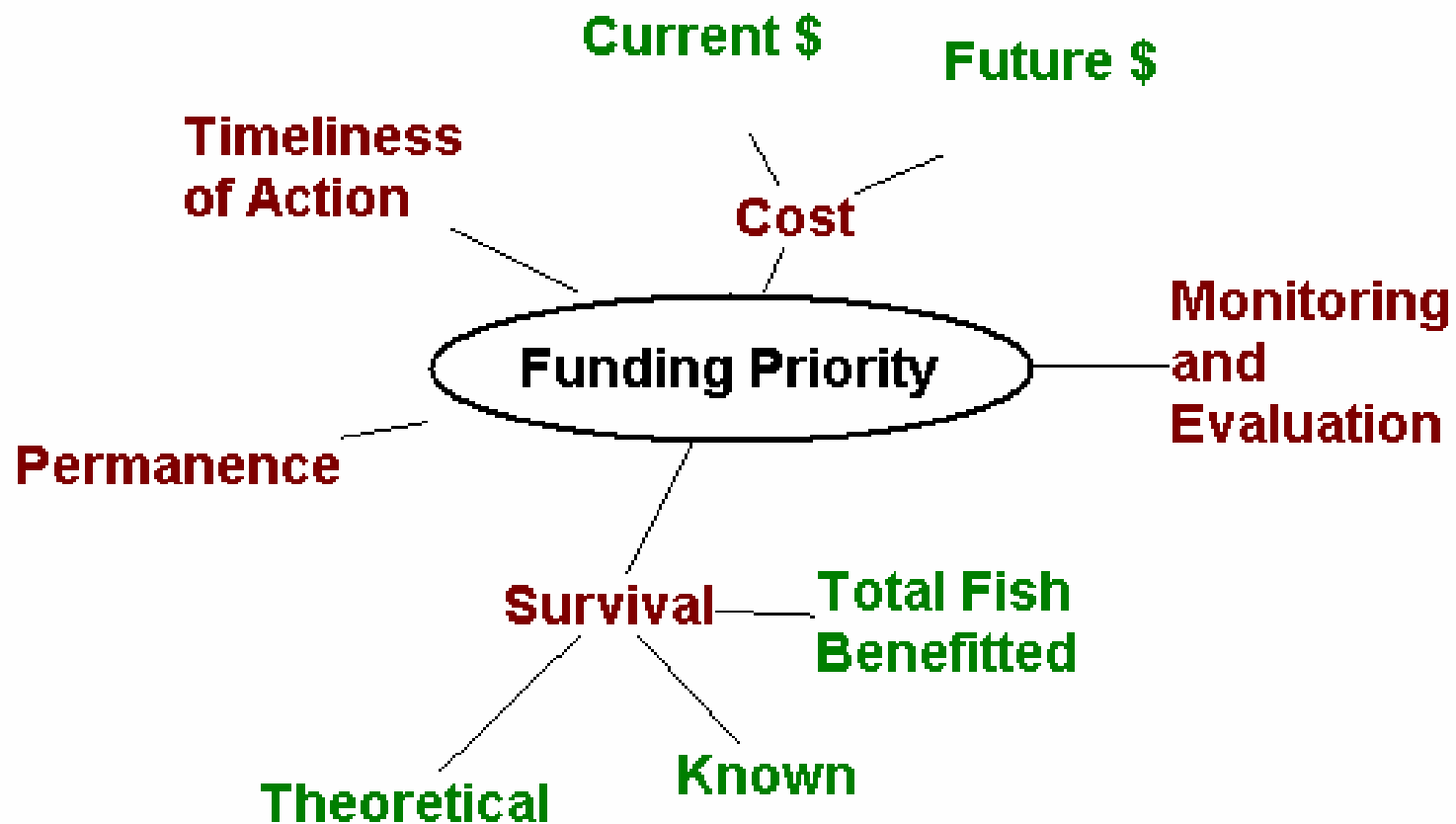
The Columbia River fish passage study was sufficiently complex that it benefited from application of a multi-criteria planning tool



Criterion Decision Plus (CDP) is ideal for multiple criteria decisions with diverse stakeholders



# Brainstorming sessions are often a good way to obtain input from stakeholders



# Criteria rating and tradeoffs illustrate relative priorities


**Average  
Weight**

Subcriterion	Weight	
Current \$	0	<div><div></div></div>
Future \$	0	<div><div></div></div>
Known Survival	100	<div><div></div></div>
Prop Listed/Non-Listed	90	<div><div></div></div>
Total Fish Benefitted	63.75	<div><div></div></div>
Timeliness of Action	60	<div><div></div></div>
Key Knowledge	68.75	<div><div></div></div>
Passage Impact	72.5	<div><div></div></div>
Theoretical Survival	50	<div><div></div></div>
Permanence	58.75	<div><div></div></div>
Ongoing Action	35	<div><div></div></div>
Policy comm.	30	<div><div></div></div>
Monitoring and Evaluation	20	<div><div></div></div>

# Verbal rating scales allow evaluation of qualitative objectives

Scale Type: ☐ Numeric ☒ Verbal

Scale Information

Name	Scale Range	Worst	Best
 Importance		Critical ...	Trivial

Edit High/Low Defaults

Scale Name:

Any Qualitative Scale

Most Desirable:

Fantastic

Great

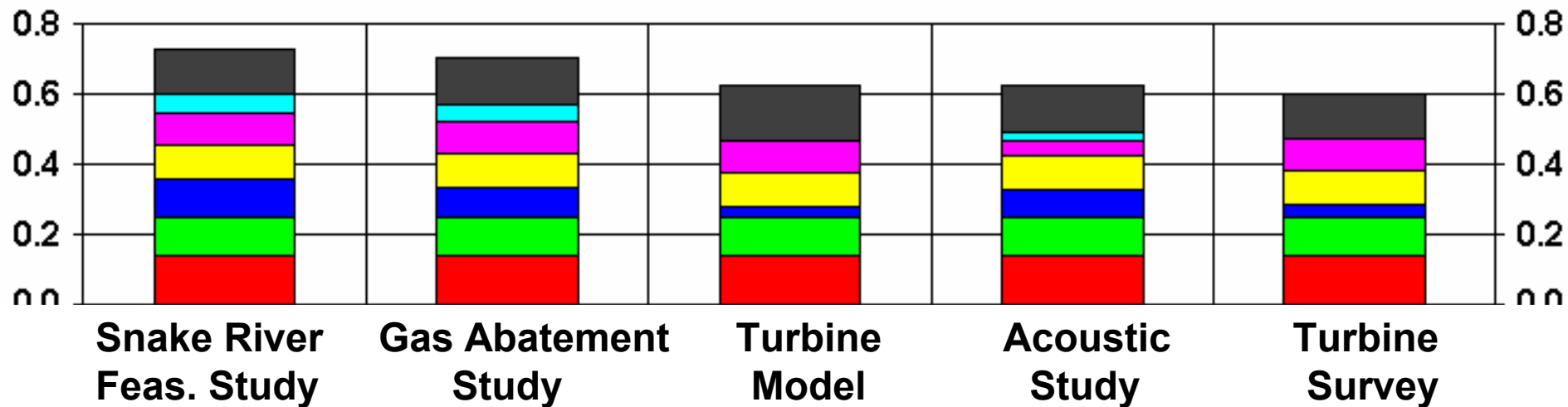
Good

Average

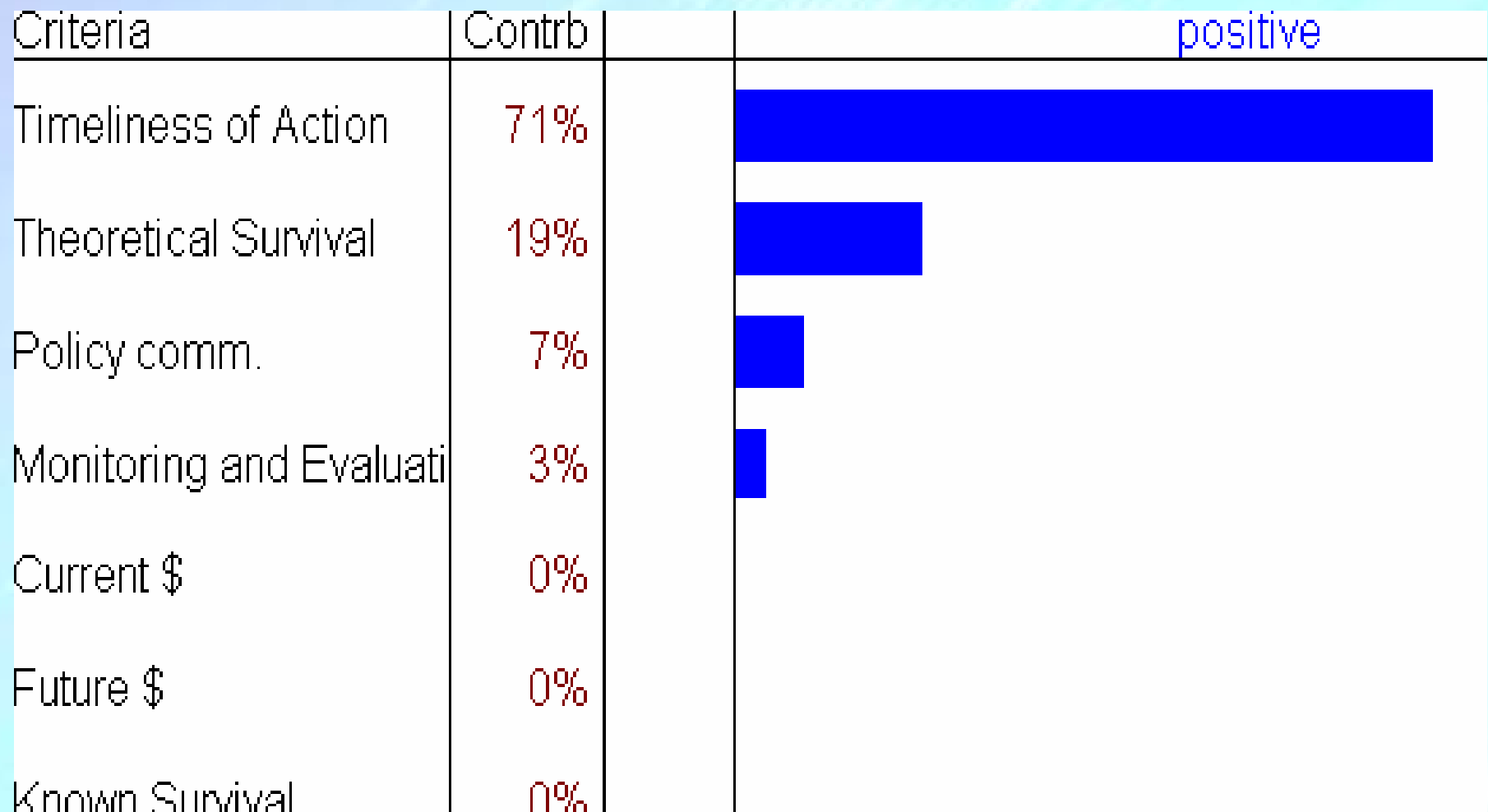
Poor

Terrible

# Identification of decision drivers allows focus on key issues

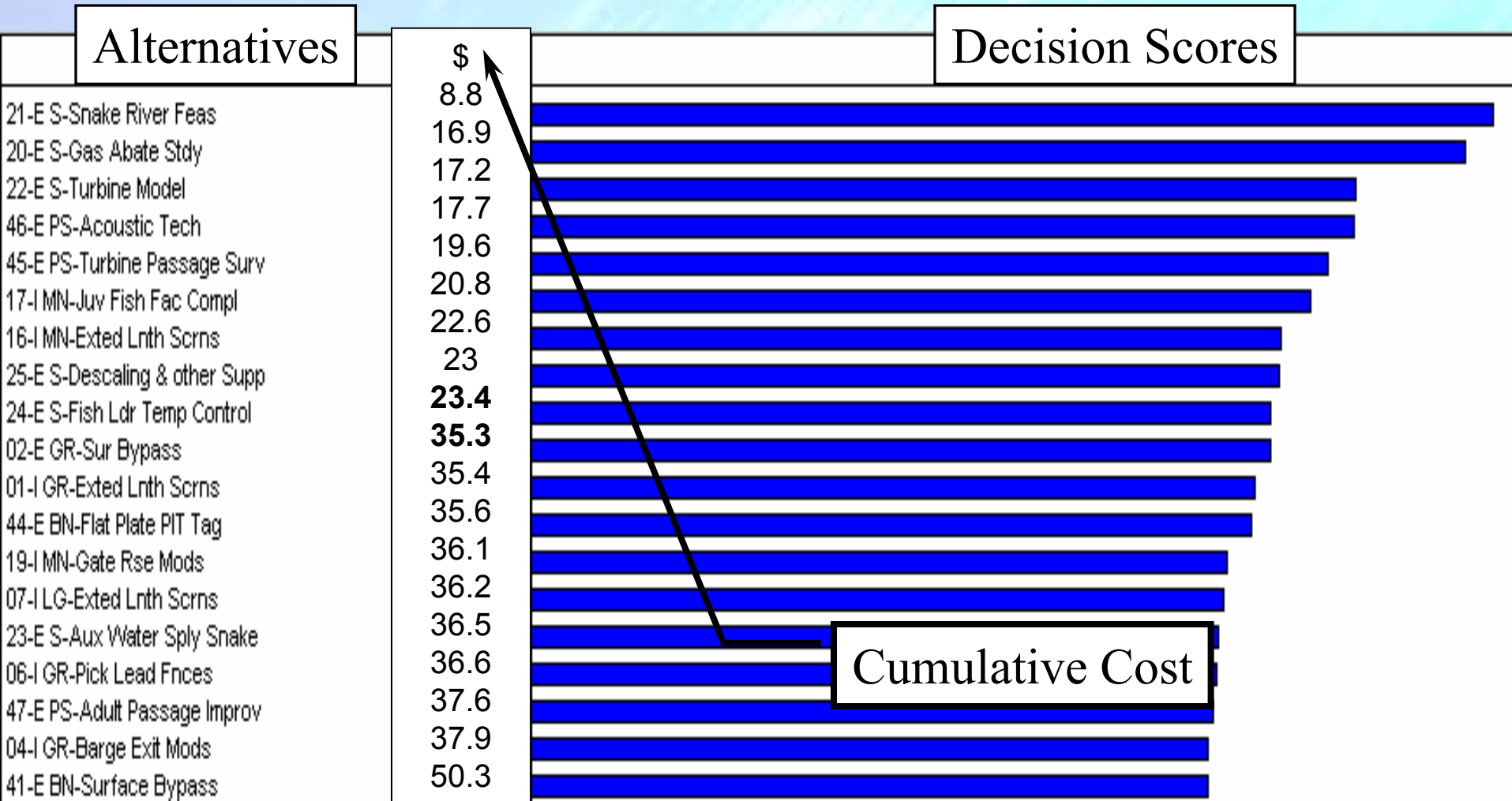


# Uncertainty evaluation indicates which attributes may warrant further study

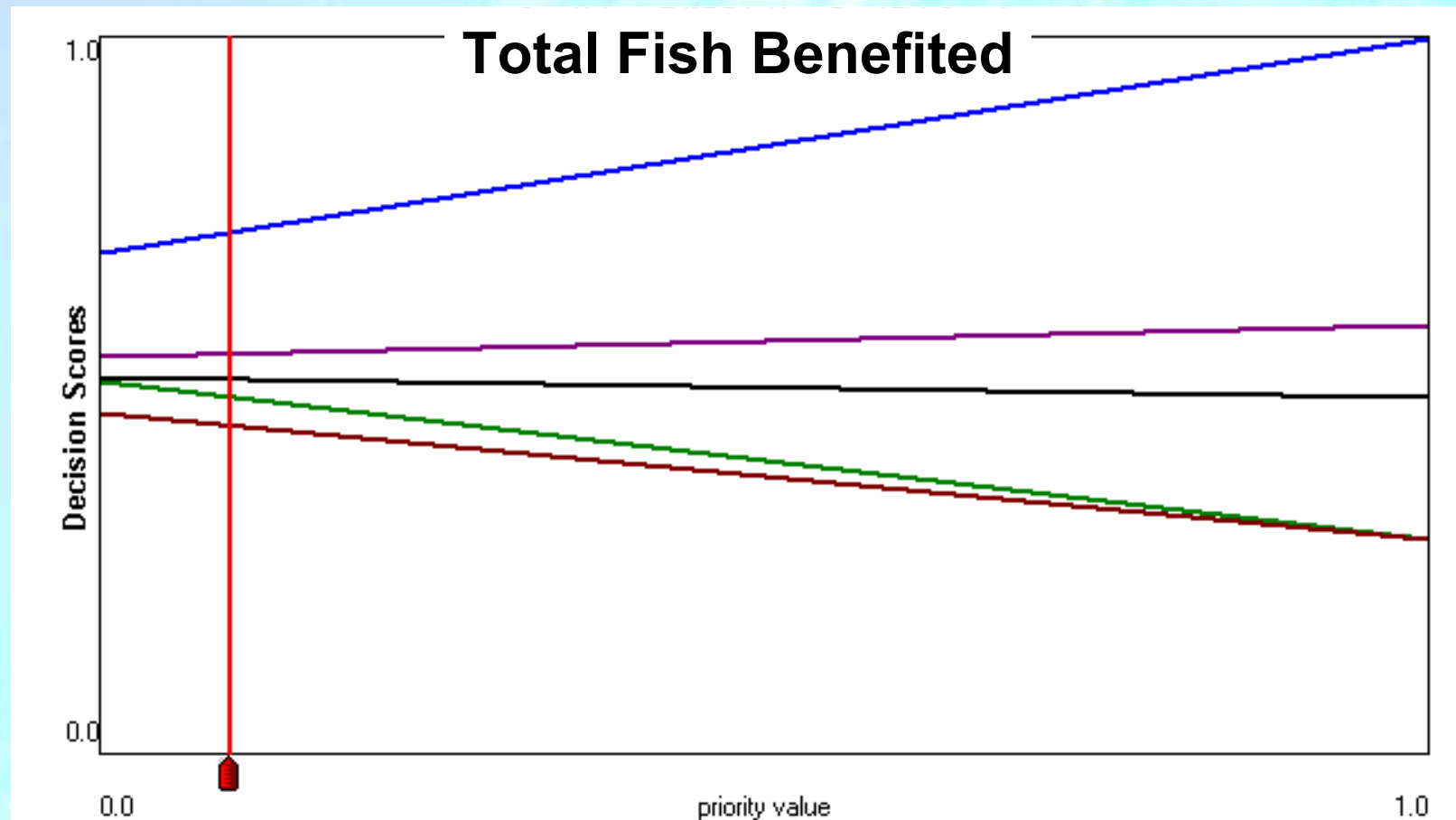




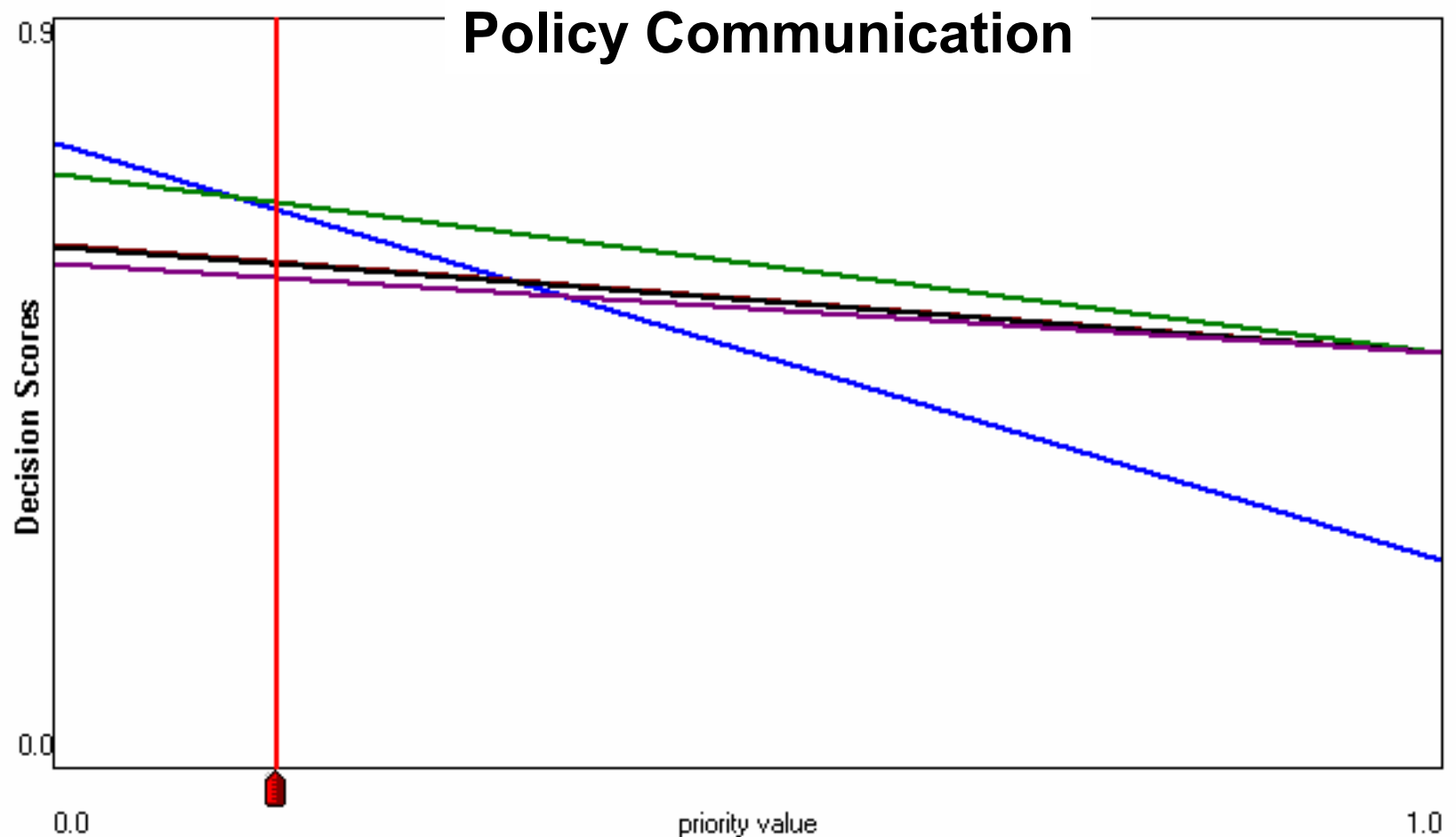
# Cumulative score presentation facilitates understanding of financial implications



Sensitivity analysis reveals criteria that are **not** sensitive to changes in weighting



# Sensitivity analysis reveals criteria that **are** sensitive to changes in weighting



# Water resources planning can benefit from a multi-criteria decision support process



# Discussion